

**Delayed release biocide**

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- international: A01N43/50; C02F1/50  
- european:  
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**Abstract of CN1432279**

The slow release bromide biocide for disinfection of industrial water and public places consists of bromochloro dimethyl hydantoin as main component 50-80 wt%, other halogenated hydantoin as supplementary material 15-35 wt% and active adhesive 5-15 wt%, and is prepared into tablet or granule with controlled dissolving rate and thus delayed release function. It has the germicidal advantage of bromide biocide maintained and prolonged biocidal effect. Its slow release function is realized through both stepped reaction to release active components slowly and properly selected adhesive to control dissolving rate.

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**Bibliographic Information**

**Slow-release disinfectant.** Chang, Chunzhi; Zhang, Jian; Yao, Zhongyi; Xiao, Xingcheng; Li, Yan; Ji, Yahong; Guo, Hongmei; Yang, Yansheng; Chen, Lianjun. (China National Petroleum Group Corp., Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu (2003), 7 pp. CODEN: CNXXEV CN 1432279 A 20030730 Patent written in Chinese. Application: CN 2002-100331 20020111. CAN 143:65377 AN 2005:393364 CAPLUS (Copyright 2005 ACS on SciFinder (R))

**Patent Family Information**

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**Abstract**

The title disinfectant comprises 2-bromo-4-chlorodimethylhydantoin(sic) as main material, halogenated hydantoin as adjuvant, and active binding agent at a ratio of 50-80:15-35:5-15. The 2-bromo-4-chlorodimethylhydantoin(sic) is prepd. by carrying out N1, N3-halogenation of 5,5-dimethylhydantoin with liq. Br<sub>2</sub> and Cl<sub>2</sub> resp. in the presence of basic soln. as disacidifying agent. The adjuvant may be halogenated hydantoin, and chlorine disinfectant (e.g., sodium dichloroisocyanurate, and chlorine hydantoin); and the active binding agent may be one or more of methylethyl hydantoin, and single kind of binding agent.